

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Canceled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strike through~~. The status of each claim is indicated with one of (original), (currently amended), (canceled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-16 and CANCEL claim 17 in accordance with the following:

1. (currently amended) An information processing apparatus comprising:
a first storage unit;
a processor ~~for executing~~configured to execute a program written in the first storage unit;
a second storage unit ~~for storing~~configured to store a plurality of ~~distinct encrypted programs~~program segments into which ~~a~~the program is divided; and
a secure module capable of performing operations of:
 receiving each of the program segments stored in the second storage unit;
 returning each of the received program segments to an executable state;
 writing each of the program segments, which ~~has~~have each been returned to the executable state, in the first storage unit in a sequence for the processor to execute; and
 deleting each of the program segments, which ~~has~~have each been executed by the processor, from the first storage unit after execution is completed,
 wherein the processor transmits the program segments stored in the second storage unit to the secure module.

2. (currently amended) The information processing apparatus according to claim 1, wherein the secure module ~~is further capable of judging~~includes a processor configured to judge whether or not an execution request signal for a divided program has been received, and ~~return~~to return each of the received program segments to the executable state when it is judged that the execution request signal has been received.

3. (currently amended) The information processing apparatus according to claim 2, wherein the ~~secure module~~processor is further ~~capable of storing~~configured to store information for identifying each divided program and to judge whether ~~said each~~ divided program is a program ~~which~~that is to be kept resident in the first storage unit before program execution, or a

program ~~which~~that is not to be written in a memory before execution.

4. (currently amended) The information processing apparatus according to claim 1, wherein the secure module ~~is further capable of storing~~includes a processor that is configured to store information for identifying each divided program and to judge whether said divided program is a program ~~which~~that is to be kept resident in the first storage unit before program execution, or a program ~~which~~that is not to be written in a memory before execution.

5. (currently amended) An information processing apparatus comprising:
a first storage unit;
a processor ~~for executing~~configured to execute a program written in the first storage unit;
a second storage unit ~~for storing~~configured to store a plurality of ~~distinct encrypted programs~~program segments into which ~~at~~the program is divided and rewrites itself with invalid code just before the program is completed; and
a secure module capable of performing operations of:
 receiving each of the program segments stored in the second storage unit;
 returning each of the received program segments to an executable state;
 writing each of the program segments, which ~~has~~have each been returned to the executable state, in the first storage unit in a sequence for the processor to execute; and
 deleting each of the program segments, which ~~has~~have each been executed by the processor, from the first storage unit after execution is completed,
 wherein the processor transmits the program segments stored in the second storage unit to the secure module.

6. (currently amended) The information processing apparatus according to claim 5, wherein the secure module ~~is further capable of judging~~includes a processor configured to judge whether or not an execution request signal for a divided program has been received, and ~~returns~~to return each of the received program segments to the executable state when it is judged that the execution request signal has been received.

7. (currently amended) The information processing apparatus according to claim 6, wherein the ~~secure module~~processor is further ~~capable of storing~~configured to store information for identifying each divided program and to judge whether ~~said each~~ divided program is a program ~~which~~that is to be kept resident in the first storage unit before program execution, or a

program ~~which~~that is not to be written in a memory before execution.

8. (currently amended) The information processing apparatus according to claim 5, wherein the secure module ~~is further capable of storing~~includes a processor that is configured to store information for identifying each divided program and to judge whether said divided program is a program ~~which~~that is to be kept resident in the first storage unit before program execution, or a program ~~which~~that is not to be written in a memory before execution.

9. (currently amended) An information processing apparatus comprising:
a first storage unit;
a processor ~~for executing~~configured to a program written in the first storage unit;
a second storage unit ~~for storing a plurality of distinct~~configured to store an encrypted programs; and
a secure module capable of performing operations of:
 receiving ~~a~~the encrypted program stored in the second storage unit;
 dividing the received encrypted program into a plurality of encrypted programs segments;
 returning each ~~divided~~of the program segments to an executable state;
 writing each of the program segments, which ~~has~~have been returned to the executable state, in the first storage unit in a sequence for the processor to execute; and
 deleting each of the program segments, which ~~has~~have been executed by the processor, from the first storage unit after execution is completed,
 wherein the processor transmits the program stored in the second storage unit to the secure module.

10. (currently amended) The information processing apparatus according to claim 9, wherein

 the second storage unit ~~is further stores~~configured to store information on division of a program correspondingly to the stored program, and

 the secure module divides the received program into a plurality of ~~programs~~program segments based on the information on division of the program.

11. (currently amended) An information processing apparatus comprising:
a first storage unit;

a processor ~~for executing~~configured to execute a program written in the first storage unit;
a second storage unit ~~for storing a plurality of distinct~~configured to store an encrypted
programs; and

a secure module capable of performing operations of:

receiving ~~a~~the encrypted program stored in the second storage unit;

dividing the received encrypted program into a plurality of ~~programs~~encrypted
program segments; and making each of the plurality of ~~divided programs~~program
segments to be a program ~~which~~that rewrites itself with an invalid code just before the
program is completed;

returning each ~~divided~~of the program segments to an executable state; and

writing each of the program segments, which ~~has~~have been returned to the
executable state, in the first storage unit in a sequence for the processor to execute,

wherein the processor transmits the program stored in the second storage unit to
the secure module.

12. (currently amended) The information processing apparatus according to claim 11,
wherein

the second storage unit ~~is further stores~~configured to store information on division of a
program correspondingly to the stored program, and

the secure module divides the received program into a plurality of programs based on the
information on division of the program.

13. (currently amended) An information processing apparatus comprising:

a first storage unit where a plurality of ~~distinct programs~~encrypted program segments,
into which ~~a~~an encrypted program has been divided, are kept resident before execution;

a processor ~~for executing~~configured to execute each of the ~~programs~~program segments
written in the first storage unit;

a second storage unit ~~for storing~~configured to store an encrypted call program whichthat
calls ~~divided programs~~program segments as an execution program; and

a secure module capable of performing operations of:

receiving the call program stored in the second storage unit;

returning the received call program to an executable state;

writing the call program, which has been returned to a corresponding executable
state, in the first storage unit in a sequence for the processor to execute a divided

program; and

deleting the call program, which has been executed by the processor, from the first storage unit after execution is completed,

wherein the second storage unit transmits the call program stored in the second storage unit to the secure module.

14. (currently amended) The information processing apparatus according to claim 13, wherein

the first storage unit further stores link information ~~which~~that is information to specify a call relationship between the ~~divided programs~~program segments, and

the secure module detects a sequence to execute the ~~divided programs~~program segments based on the link information.

15. (currently amended) An information processing apparatus comprising:

a first storage unit where a plurality of ~~distinct programs~~encrypted program segments, into which ~~a~~an encrypted program has been divided, are kept resident before execution;

a processor ~~for executing~~configured to execute the ~~programs~~program segments written in the first storage unit;

a second storage unit ~~for storing~~configured to store an encrypted call program, which calls ~~divided programs~~program segments just before ~~the~~each program is completed as each execution program ~~which~~that rewrites itself with invalid code; and

a secure module capable of performing operations of:

receiving the call program stored in the second storage unit;

returning the received call program to an executable state; and

writing the call program, which has been returned to the corresponding executable state, in the first storage unit in a sequence for the processor to execute ~~divided programs~~program segments;

wherein the second storage unit transmits the call program stored in the second storage unit to the secure module.

16. (currently amended) The information processing apparatus according to claim 15, wherein

the first storage unit further stores link information ~~which~~that is information to specify a call relationship between the ~~divided programs~~program segments, and

the secure module detects a sequence to execute the ~~divided programs~~program
segments based on the link information.

17. (cancelled)